DT07 Rec'd PCT/PTO 1 7 DEC 2004

PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** ATTORNEY'S DOCKET NUMBER 0321.67638

see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PRIORITY DATE CLAIMED

| The Exi PHERAL COUPLED TRAVELING WAVE ELECTRO-ABSORPTION MODULATOR APPLICANT(S) FOR DOEOUS The Regents of the University of California Applicant herewith submits to the University of California Applicant herewith submits to the University of California Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. | PC | T/US03/020352 | 27 June 2003 | 28 June 2002 | | | | | | | | |
|--|---|---|---|--|--|--|--|--|--|--|--|--|
| The Regents of the University of California Applicant herewith submits to the University of California Applicant herewith submits to the University of California Applicant herewith submits to the University of California This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a | TITLE OF INVENTION | | | | | | | | | | | |
| 1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (8), (9) and (21) indicated below. 4. X he US has been elected (Article 31). 5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a | APPLICANT(S) FOR DO/EO/US | | | | | | | | | | | |
| 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The US has been elected (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. Is satisched hereto (required only if not communicated by the International Bureau). b. A has been communicated by the International Bureau. c. Is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. Is attached hereto. b. Anse has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. Is attached hereto (required anly if not communicated by the International Bureau). b. Have been communicated by the International Bureau. c. In have not been made; however, the time limit for making such amendments has NOT expired. d. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An an onther of declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. Items 11 to 20 below concern document for recording, A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 11. An Application Data Sheet under 37 CFR 1.97 and 1.98. 12. An assignment document for recording, A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 4. An Application Data Sheet under 37 CFR 1.76. 14. A second copy of the published international Application under 35 U.S.C. 154(d)(4). 15. Ascond copy of the English language translation of the i | Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | | | | | | | | | |
| 3. | 1. X Thi | his is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | | | | |
| (5), (6), (9) and (21) indicated below. 4. | 2. Thi | his is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | | | | |
| A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. Is attached hereto (required only if not communicated by the International Bureau). b. Is has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter. 2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the financial international Application under 35 U.S.C. 154(d)(4). | 3. X Thi | This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. | | | | | | | | | | |
| a. is attached hereto (required only if not communicated by the International Bureau). b. has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (ROAUS). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document(s) or information included: 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13fer/2 and 37 CFR 1.821-1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. | 4. X The | he US has been elected (Article 31). | | | | | | | | | | |
| b. | 5. X A | A copy of the International Application as filed (35 U.S.C. 371(c)(2)) | | | | | | | | | | |
| c. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. Imagish language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter 2 and 37 CFR 1.821-1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. Chest items or information. | a | a. is attached hereto (required only if not communicated by the International Bureau). | | | | | | | | | | |
| An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Mandments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. May have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. Man An English language translation of the amnexes of the International Preliminary Examination Report under PCT Article 38 (35 U.S.C. 371(c)(3)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 38 (35 U.S.C. 371(c)(3)). 11. Man Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. Other items or information. International Search Report | t | b. X has been communicated by the International Bureau. | | | | | | | | | | |
| a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. in have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(3)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). Other items or information. International Report in being deposited in the international application under 35 U.S.C. 154(d)(4). | | c. is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | | | | | |
| b. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(3)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 6. L A | An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). | | | | | | | | | | |
| Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. | ā | is attached hereto. | | | | | | | | | | |
| a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | b. has been previously submit | ted under 35 U.S.C. 154(d)(4). | | | | | | | | | |
| b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13fer.2 and 37 CFR 1.821-1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 7. X A | Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) | | | | | | | | | | |
| c. have not been made; however, the time limit for making such amendments has NOT expired. d. \(\text{ have not been made and will not be made.} \) 8. \(\text{ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).} \) 9. \(\text{ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).} \) (Will follow) 10. \(\text{ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. \(\text{ An Information Disclosure Mocument(s) or information included:} \) 12. \(\text{ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.} \) 13. \(\text{ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.} \) 13. \(\text{ A preliminary amendment.} \) 14. \(\text{ An Application Data Sheet under 37 CFR 1.76.} \) 15. \(\text{ A substitute specification.} \) 16. \(\text{ A power of attorney and/or change of address letter.} \) 17. \(\text{ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.} \) 18. \(\text{ A second copy of the published International Application under 35 U.S.C. 154(d)(4).} \) 19. \(\text{ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).} \) | | a. are attached hereto (requir | red only if not communicated by the Internat | ional Bureau). | | | | | | | | |
| d. A have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 20. X Other items or information: International Search Report | | b. have been communicated | by the International Bureau. | | | | | | | | | |
| An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Will follow) An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). Other items or information: International Search Report | | c. have not been made; howe | ever, the time limit for making such amendm | nents has NOT expired. | | | | | | | | |
| 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (WIII follow) 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | d. X have not been made and v | vill not be made. | | | | | | | | | |
| An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. | 8. | An English language translation of th | e amendments to the claims under PCT Art | icle 19 (35 U.S.C. 371(c)(3)). | | | | | | | | |
| Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 9. X A | An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (WIII follow) | | | | | | | | | | |
| An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | | | | | | | | | | | |
| An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: International Search Report | Items 1 | 1 to 20 below concern document(s |) or information included: | | | | | | | | | |
| A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13 <i>ter.</i> 2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 11. 🛛 🗡 | An Information Disclosure Statement | under 37 CFR 1.97 and 1.98. | | | | | | | | | |
| An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 12. 🗌 📝 | An assignment document for recording | ng. A separate cover sheet in compliance wi | th 37 CFR 3.28 and 3.31 is included. | | | | | | | | |
| A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 13. 🔲 📝 | A preliminary amendment. | | * | | | | | | | | |
| A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13 <i>ter</i> .2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: International Search Report | 14. 🔲 📝 | An Application Data Sheet under 37 (| CFR 1.76. | | | | | | | | | |
| A computer-readable form of the sequence listing in accordance with PCT Rule 13 <i>ter.</i> 2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: International Search Report | 15. 🔲 / | A substitute specification. | | • | | | | | | | | |
| A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: International Search Report | 16. 🔲 📝 | A power of attorney and/or change of | address letter. | | | | | | | | | |
| 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | 17. 🔲 📝 | A computer-readable form of the seq | uence listing in accordance with PCT Rule 1 | 3ter.2 and 37 CFR 1.821- 1.825. | | | | | | | | |
| 20 🕅 Other items or information: International Search Report | 18. 🔲 / | A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | | | | | | | | | |
| 20. Other items or information: International Search Report The collection of information is required by 37 CFR 1414 and 1491-1492. The information is required to obtain or retain a best the United States Postal Service as Express Ma | 19. 🔲 , | A second copy of the English language | ge translation of the international application | under 35 U.S.C. 154(d)(4). | | | | | | | | |
| | | | ` | Obtain or retain a bet the linited States Postal Service as Express Ma | | | | | | | | |

Inis collection or information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a bet USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection I including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the in of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Off Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO T Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

d with il in an R PATENTS, envelope addressed to: (P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

December 17, 2004

Express Mail No. EL965134765US

PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| U.S. APPLICATION NO. (if known see 37 CER 1.5) INTERNATIONAL APPLICATION NO. | | | | | | ATTORNEY'S DOCKET NUMBER | | | | |
|--|--|-----------------------|--|-------------|-----------|--------------------------|-------------|-----------------|--|--|
| U.S. APPLICATION NO. (if known, see 37 CER 1.5) INTERNATIONAL APPLICATION NO. PCT/US03/20352 | | | | | | 0321.67638 | | | | |
| 21. The following | ng fees are submitted: | | | | | | ant use | Office use only | | |
| (X) a) Basic na | itional fee | | | \$300 | 0.00 | <u> </u> | 300.00 | | | |
| b) Examin | ation fee | | | \$200 | 0.00 | \$ | 200.00 | | | |
| | ee | | | \$500 | 0.00 | \$ | 500.00 | | | |
| , | | | | | | \$ | 1000.00 | | | |
| TOTAL OF ABOVE CALCULATIONS = \$1000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | |
| Total Sheets | Extra sheets | | of each additional 50 or fraction of (round up to a whole number) | | ATE | | | | | |
| - 100 = | /50 = | | | × \$ | 250.00 | \$ | | | | |
| | 30.00 for furnishing the ordate (37 CFR 1.492(e)). | ath or decl | aration later than 30 months from | m the earli | iest | \$ | | | | |
| CLAIMS | NUMBER FIL | .ED | NUMBER EXTRA | RAT | ΓE | \$ | | | | |
| Total claims | 18 | - 20 = | 0 | x \$5 | x \$50.00 | | 0 | | | |
| Independent cla | | - 3 = | 0 | x \$20 | 00.00 | \$ | 0 | | | |
| MULTIPLE DEP | ENDENT CLAIM(S) (if an | plicable) | | + \$36 | 60.00 | \$ | 0 | | | |
| | | | TOTAL OF ABOVE O | CALCULA | TIONS = | \$ | 1000.00 | | | |
| Applicant of by 1/2. | claims small entity status. | See 37 C | FR 1.27. The fees indicated abo | ve are red | duced | \$ | | | | |
| <u> </u> | | <u> </u> | | SUB | TOTAL = | \$ | 500.00 | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | | | \$ | | | | |
| Claimer priority | (,, _ | | TOTAL | NATIONA | L FEE = | \$ | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | | | \$ | | | | |
| TOTAL FEES ENCLOSED = | | | | | | | 500.00 | | | |
| Amount to be refunded: | | | | | | | | \$ | | |
| Amount to be charged | | | | | | | | \$ | | |
| a. A che | ck in the amount of \$ | 500.0 | to cover the abov | e fees is e | enclosed. | | | | | |
| b. Pleas | e charge my Deposit Acc | ount No s enclosed | in the amount of \$ | | to co | over the | above fees. | | | |
| c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-2069 A duplicate copy of this sheet is enclosed. | | | | | | | | | | |
| d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must and granted to restore the International Application to pending status. | | | | | | | | | | |
| SEND ALL CORRESPONDENCE TO: | | | | | | | | | | |
| Greer, Burns & Crain, Ltd. | | | | | | | \sim | \ | | |
| 300 South Wacker Drive Suite 2500 | | | | | | _ | | | | |
| Chicago, IL 60606 Steven F | | | | | | . Fa | llon | | | |
| _ | 60-0080 | | | | 5,132 | | | | | |
| REGISTRAT | | | | | | ON NU | MBER | | | |
| 1 | | | | | | | | | | |